

# आरत का राजपत्र

## The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं० 29] नई विल्ली, शनिवार, जुलाई 18, 1981 (आषाढ़ 27, 1903)  
No. 29] NEW DELHI, SATURDAY, JULY 18, 1981 (ASADHA 27, 1903)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।  
Separate paging is given to this Part in order that it may be filed as a separate compilation

### भाग III—खण्ड 2

### PART III—SECTION 2

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE  
PATENTS AND DESIGNS  
Calcutta, the 18th July 1981

#### CORRIGENDUM

In the Gazette of India Part-III Section 2 dated the 8th November 1980 at page 553 Column 2 under the heading "Complete Specification Accepted" the No. 148142 for the name of the applicant viz., "Veba-Chemic Aktiengesellschaft" read "Veba Oel Aktiengesellschaft".

APPLICATION FOR PATENTS FILED AT THE HEAD  
OF ICE, 214, ACHARYA JAGADISH BOSE ROAD.  
CALCUTTA-700 017

The dates shown in crescent brackets are the dates claimed under Section 135 of the Act.

10th June, 1981

624/Cal/81. D. B. B. K. Singh. An automatic engine roated by atmosphere energy.

625/Cal/81. Sperry Corporation. Power transmission.

626/Cal/81. Sperry Corporation. Power transmission.

627/Cal/81. Sperry Corporation. Power transmission.

628/Cal/81. Pont-A-Mousson S.A. Gate valve.

629/Cal/81. Italtel Societa Italiana Telecommunicazioni s.p.a. Timing circuit for PCM signal reception.

11th June, 1981

630/Cal/81. Westinghouse Electric Corporation. Puffer type compressed gas circuit interrupter.

631/Cal/81. Westinghouse Electric Corporation. The reduction and control of reverse recovery charge in thyristors via proton or alpha particle irradiation.

632/Cal/81. D. M. Deshmukh. Room cooler.

633/Cal/81. D. M. Deshmukh. Composing machines.

634/Cal/81. Amtel, Inc. Mooring buoy.

635/Cal/81. L. A. Gasjuk (2) I. V. Gritskov, (3) L. V. Ivanova, (4) V. S. Oparin, (5) M. P. Eparkhin and A T. Serkov. Spinning machine for making chemical fibres.

12th June 1981

636/Cal/81. Kabushiki Kaisha Kobe Seiko Sho. Air separating system.

637/Cal/81. Cummins Engine Company, Inc. Rotary electrically actuated device.

638/Cal/81. Aluminium Pechiney. Process and apparatus for accurately controlling the rate of introduction and the content of alumina in an igneous electrolysis tank, and use for the production of aluminium.

639/Cal/81. Etat Francais. Improvements in supercharged internal combustion engines, in particular diesel engines, and in methods for starting up these engines.

640/Cal/81. Energy Sciences Partners, Ltd. A system for making an aqueous slurry-type blasting composition.

641/Cal/81. Indian Explosives Limited, The Alkali and Chemical Corporation of India Limited and Chemicals and Fibres of India Limited. A process for the preparation of novel polystyrene resins.

642/Cal/81. Indian Explosives Limited, The Alkali and Chemical Corporation of India Limited and Chemicals and Fibres of India Limited. A process for the preparation of dithiocarbamato functionalised polystyrene supported rhodium dicarbonyl complex.

643/Cal/81. Indian Explosives Limited, The Alkali and Chemical Corporation of India Limited and Chemicals and Fibres of India Limited. A process for the preparation of novel polystyrene resins functionalised with olefinic groups.

644/Cal/81. Indian Explosives Limited, The Alkali and Chemical Corporation of India Limited and Chemicals and Fibres of India Limited. A process for the preparation of ruthenium cluster catalysts supported on functionalised linear or divinyl-benzene cross-linked polystyrene.

15th June, 1981

645/Cal/81. Kabushiki-Kaisha Daini Yoshida Kinen Tekkosho and Nippon Arm Kogyo Kabushiki Kaisha. Methods of forming a metal tube into a tapered shape and means for protecting the same against deformation.

646/Cal/81. Sealed Power Corporation. Fluid filter. (March 11, 1981).

647/Cal/81. Deutsche Texaco AG. Process for the production of lower alcohols.

16th June, 1981

648/Cal/81. Union Carbide Corporation. Method for detecting solidification in a mixed phase container.

649/Cal/81. Fives-Cail Babcock. Pulsation amplitude control for pneumatically pulsated liquid.

650/Cal/81. American Can Company. Monitoring weld quality via forging assembly dynamics.

651/Cal/81. American Can Company. Closed loop control of continuous seam resistance heated forge welding.

652/Cal/81. Italtel Societa Italiana Telecommunicazioni s.p.a. Transmission circuit for PCM circuits.

653/Cal/81. Italtel Societa Italiana Telecommunicazioni s.p.a. Circuit arrangement for synchronizing timing units in a reference-impulses numerical type.

17th June, 1981

654/Cal/81. H. O. Solbakken. Grain storage apparatus. (June 17, 1980).

655/Cal/81. O. F. Larsen. Barrier Structure and method of producing and laying it. (June 18, 1980) (July 10, 1980), (February 9, 1981). (April 10, 1981).

656/Cal/81. C. S. You. A reinforced racket frame and method of producing same.

657/Cal/81. Metallgesellschaft A.G. Process of simultaneously producing fuel gas and process heat from carbonaceous materials.

THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, IIIRD FLOOR, KAROL BAGH, NEW DELHI-110 005

25th April, 1981

257/Del/81 Council of Scientific and Industrial Research, "An improved Sealing Device for Electrical Connections."

258/Del/81 Council of Scientific and Industrial Research, "An Improved Device for Automatic Precision Grinding of Tube/Rod and Surfaces."

27th April 1981

259/Del/81 Chemische Fabrik Stockhausen GmbH, "Mixture of Alkali Salts of Sulfo-Succinic Acid Dialkylesters and Higher Aliphatic Alcohols, use thereof to Defoam Mineral Acid Decomposition Media."

260/Del/81 Hartmann & Braun Aktiengesellschaft, "Photoelectric Gas Analysis Device." (October 1, 1980).

261/Del/81 Krishna Kamal Banerjee, "Fibreglass Reinforced Plastic Moulded Water Pan."

262/Del/81 M. L. Sports, "Cricket, hockey or the like balls."

29th April, 1981

263/Del/81 Atlas Powder Company, "Electronic Blasting Cap."

30th April, 1981

264/Del/81 Council of Scientific & Industrial Research, "Trowel Vibrator."

265/Del/81 Council of Scientific & Industrial Research, "An Electrochemical Process for Preparation of Phenyl Methanal (Benzaldehyde) from Phenyl Methanol (Benzyl Alcohol)."

1st May, 1981

266/Del/81 Indian Technological Products, "Improved Electrical Terminal."

267/Del/81 Gopi Krishan Kabra, "A Metal Detector."

268/Del/81 The Chief Controller Research & Development Ministry of Defence, "A Sensor for the Measurement of Incident Dynamic Explosion Pressure in Water."

269/Del/81 The Chief Controller Research & Development Ministry of Defence, "A Method for the Modification of Aluminium-Silicon Eutectic alloys (Silumins)."

270/Del/81 Imperial Chemical Industries Limited, "Olefins." (May 13, 1980).

271/Del/81 Societe Nationale Des Poudres Et Explosifs, "Process for the Synthesis of Chlorinated Chloroformates, and New-Chlorinated Chloroformates."

272/Del/81 Imperial Chemical Industries Limited, "Monopolar Electrolytic Cell of the Filter Press Type." (May 15, 1980).

2nd May, 1981

273/Del/81 Dart Industries Inc., "Supported High Efficiency Polyolefin Catalyst Components and Methods of Making and Using the Same."

4th May, 1981

274/Del/81 G. D. Societa' Per Azioni, "Device for Fitting Filters to Cigarettes."

5th May, 1981

275/Del/81 Rubery Owen-Rockwell Limited, "Improvements in Twistlocks for Mounting Freight Containers of Trailers and Other Vehicles." (May 14, 1980).

276/Del/81 Frederick John Taylor, "Spring Actuated Piston Pump." (February 17, 1981)

277/Del/81 Lafarge Consells Et Etudes, "Seal Assembly for a Rotary Kiln."

278/Del/81 Imperial Chemical Industries Limited, "Methanol Production." (May 20, 1980).

6th May, 1981

279/Del/81 The Chief Controller Research & Development, Ministry of Defence, "Process for the Preparation of 2,4 Dinitro Chloro Benzene."

280/Del/81 The Chief Controller Research & Development, Ministry of Defence, "A Process for Preparing High Energy Gel/Slurry Explosives."

281/Del/81 Yogendra Nath Bhargava, "Control and Signalling Switch."

282/Del/81 Yogendra Nath Bhargava, "Semaphore Indicator."

283/Del/81 Yogendra Nath Bhargava, "Control and Transfer Switch."

284/Del/81 Mr. Bimal Mehra, "An Apparatus for the Manufacture of Glass Lens." [Addition to No. 475/Del/77].

285/Del/81 Deoki Nandan Singhania, "A Circuit Breaker." [Addition to No. 395/Del/80].

286/Del/81 The Direct Reduction Corporation, "Air Elutriation Device for Recovering Char Fines in the Discharge Waste from an Iron Oxide Reducing Kiln."

287/Del/81 Uniroyal, Inc., "Reduced Noise Positive Drive Power Transmission System."

7th May, 1981

288/Del/81 Salvador Gali Mallofre, "Automatic Machine for screen printing on long table".

8th May 1981

289/Del/81 Council of Scientific & Industrial Research, "An equipment for deoiling of oil agglomerated clean and coal".

290/Del/81 Council of Scientific & Industrial Research, "Process for the catalytic conservation of alylaromatic hydro-carbons into paraxylenes".

291/Del/81 Council of Scientific & Industrial Research "Process for the preparation of a catalytic composite material".

11th May, 1981

292/Del/81 Biogen N.V., "DNA sequences, recombinant DNA molecules and processes for producing polypeptides with the specificity of foot and mouth disease viral antigens" (May 12, 1980 & August 15, 1980).

293/Del/81 Alsthom-Atlantique, "An electric shunt induction winding and automatic lamination cutting machine therefore".

294/Del/81 Plas Plugs Limited, "Blade Holder". (May 27, 1980).

295/Del/81 Aktiengesellschaft Adolph Saurer, "Actuation device for the drive gear of a weft thread carrier of a shuttleless loom".

12th May, 1981

296/Del/81 The British Petroleum Co., Ltd., "Electrodes and method of preparation thereof for use in electrochemical cells". (May 13, 1980).

14th May, 1981

297/Del/81 William Vincent Youdelis, "Process for the preparation of an alloy of silver, copper, germanium and tin". [Divisional date September 21, 1978].

298/Del/81 William Vincent Youdelis, "Process for the preparation of an alloy of silver, copper, germanium and a precious metal". [Divisional date September 21, 1978].

299/Del/81 William Vincent Youdelis, "Process for the preparation of an alloy of silver, copper, germanium, tin and a precious metal". [Divisional date September 21, 1978].

15th May, 1981

300/Del/81 M. J. Pook, "Pipe couplings".

301/Del/81 Sunil Dutt Kainthola, "Mouse or Rat Trap".

302/Del/81 Kamlesh Kumari, "X-ray opaque surgical dressings".

303/Del/81 Oil & Natural Gas Commission, Process for preparing sulpho-methylated lignite".

304/Del/81 Decca Limited, "Apparatus for obtaining the phase of a fundamental frequency from phase values of harmonics thereof". (May 27, 1980).

305/Del/81 Compret N.V., "Push-pull type physical exercising device". (June 4, 1980).

16th May, 1981

306/Del/81 Dofasco Inc., "Safety device for banking vehicles".

307/Del/81 Telefonaktiebolaget L M Ericsson, "Arrangement for adjusting an adaptive digital balance filter included in a subscriber unit".

308/Del/81 Krishna Mohan Dayal, "Excessive Heat Control".

19th May, 1981

309/Del/81 Kapoor Chand Jain, "A coated paper".

310/Del/81 Kapoor Chand Jain, "A coated paper".

311/Del/81 Kapoor Chand Jain, "A process for coating of paper".

312/Del/81 Captain Satish Kumar Sharma, "Lunar Train".

313/Del/81 The Delhi Cloth & General Mills Co., Ltd., "A process for recovering pure sulfur from the waste sludge removed from sulfur melting pits in the manufacture of sulfur based chemicals and from low purity sulfur stocks".

APPLICATIONS FOR PATENTS FILED AT THE  
PATENT OFFICE BRANCH TODI ESTATES,  
3RD FLOOR, LOWER PAREL (WEST),  
BOMBAY-400 013

25th April 1981

110/BOM/1981 Pritam Lal Rajak. Protective guide earthing wire process.

28th April 1981

111/BOM/1981 Suhas Krishnaji Joshi. A cock or tap for controlling flow of a liquid from a pipe or the like and a pipe or the like comprising the same.

112/BOM/1981 Kirloskar Brothers Limited. A swing type foot valve for centrifugal pumps.

113/BOM/1981 Kirloskar Brothers Limited. Fast and Loose Pulley (FLP) Pump set.

114/BOM/1981 Kirloskar Brothers Limited. A method of manufacturing vertically split casing pumps.

29th April 1981

115/BOM/1981 Radha Kishan Khetan. Stub motion attachment.

116/BOM/1981 Mail Order Sales Private Limited. Physical exercising device.

30th April 1981

117/BOM/1981 (1) Amratlal Shankalal Rajgor, (2) Purshottamdas Karamshibhai Patel, (3) Vinodhbhai Bhailalbhai Patel, (4) Kantibhai Narambhai Patel and (5) Manilal Karamshibhai Patel. An invention for improvement and modifications in wood cutting machine (Belt—Like).

2nd May 1981

118/BOM/1981 Shyamprasad Tapadia. Improvements in or relating to foot valve.

119/BOM/1981 Pravin Amrutlal Sinoja. An improved plastic frame for children's slates.

4th May 1981

120/BOM/1981 (1) Arvind Ravjibhai Patel and (2) Jayvadu Jashwantil Shroff. Process or transfer dyeing of fabrics and discharging such dye foreign yarns in so dyed fabrics.

121/BOM/1981 Eruchsha Nariman Contractor. Improvements in valves used to discharge large quantities of water.

5th May 1981

122/BOM/1981 Ciba-Geigy of India Limited. Process for the manufacture of Noval guanidine derivatives.

123/BOM/1981 Ciba-Geigy of India Limited. Process for the manufacture of new Guanidine compounds.

124/BOM/1981 (1) Subrahmanian Rajagopalan and (2) Maturu Vijaya Bhaskara Rao. Solid state lamp assembly.

6th May 1981

125/BOM/1981 Naranji Bhagwanji Joshi. An electronic central transistorised wall-clock with day, date and automatic lamp showing 24 countries in dial.

126/BOM/1981 Shilowbhadrab Banerjee. Improvements in and relating to the process of production of spheroidal graphite iron.

7th May 1981

127/BOM/1981 (1) Ram Pandurang Bapat (2) Arun R. Naniwadekar. Non contact type, solid state two wire connection speed switch working directly on AC Mains/D.C. Supply.

128/BOM/1981 (1) R. B. Rathi, (2) D. R. Kene. Self wetting surface in a compact area with proper gaps permitting free flow of air for evaporative cooling.

129/BOM/1981 (1) R. B. Rathi and (2) D. R. Kene. Self wetting surface in a compact area, with proper gaps permitting free flow of air for evaporative cooling.

8th May 1981

130/BOM/1981 Ramdas Shankar Amladi. Air spring tank.

11th May 1981

131/BOM/1981 Uday Shankar Bhawalkar. An apparatus to locate underground water current.

132/BOM/1981 Ahmedabad Textile Industry's Research Association. Improved pickers for Non-automatic overpick looms.

133/BOM/1981 Kabelschlepp GmbH. Energy transmission conduit.

134/BOM/1981 Kabelschlepp GmbH. Energy transmission conduit.

13th May 1981

135/BOM/1981 Padmanna Jambu Chaugule. Roofs and/or upper floors with composite materials for buildings.

APPLICATIONS FOR PATENTS FILED AT THE  
PATENT OFFICE BRANCH, 61, WALLAJAH  
ROAD, MADRAS-600 002.

8th June 1981

120/Mas/81 Vijaya Arts. Improved Raw-Material under the Trade Name of Vijnne Brand which is used for making decorative and miniature statues.

121/Mas/81 Dr. Gowrishankar Pandit Rao Palnitkar Foldable Crash Helmet.

## ALTERATION OF DATE

148914 }  
211/Mas/78 } Ante date the 27th December 1976.

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 155A & D & E. 148899.

Int. Cl.-D/4h 3/00

## A METHOD AND AN APPARATUS FOR NON-WOVEN NET STRUCTURE.

Applicant: HELLENIC PLASTICS AND RUBBER INDUSTRY N. & M. PETZETAKIS S.A.

Inventor: NICHOLAS GEORGE PETZETAKIS.

Application No. 417/Del/77 filed November 28, 1977.

Convention date December 13, 1976/(51991/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

24 Claims

A method of continuously producing a non-woven net structure from threads of or comprising a thermoplastics material said net structure comprising mutually spaced weft threads in intersecting relationship with mutually-spaced warp threads characterised in that the weft threads are applied successively to a rotatable cylinder and each weft thread is located in a respective axially-extending groove in the cylinder surface, the warp threads are simultaneously applied to a rotatable cylinder and each warp thread is located in a respective circumferentially extending groove in and encircling the cylinder surface, the weft threads are moved by cylinder rotation into intersecting relationship with the warp threads, and the threads while remaining located in their respective grooves are subjected to pressure and heat to cause the thermoplastics material of the threads to bond together at their intersections.

Comp. Spec. 17 Pages.

Drg. 2 Sheets

CLASS 130-I 148900

Int Cl -C22b 15/08, 23/04

IMPROVED PROCESS FOR THE EXTRACTION OF COPPER, NICKEL AND COBALT METAL VALUES FROM CONVERTER AND SMELTER SLAGS OBTAINED DURING EXTRACTION OF COPPER FROM ORES

Applicant COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA

Inventor SHASHI ANAND, PANJA KANTA RAO AND PRAFULLA KUMAR JENA

Application No 90/Del/78 filed February 2, 1978

Complete Specification left March 21, 1979

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch

10 Claims No drawings

Improved process for the extraction of copper, nickel and cobalt metal values from converter and smelter slags obtained during extraction of copper from ores, comprising grinding the slag of +36 to -200 +270 mesh size fraction, mixing the same with a reducing agent, heating the admixture at 600 to 950°C and leaching the reaction product with an excess of stoichiometric amount of ferric chloride hexahydrate solution to obtain clear leach liquor containing said metal values further treating residue obtained with the reducing agent, heating and leaching the thus reduced mass with ferric chloride hexahydrate to obtain another fraction of the leach liquor containing the said metal values

Prov Specn 2 Pages Comp Specn 8 Pages Digs N/A

CLASS 50E 148901

Int Cl F25d 15/04

IMPROVEMENT IN A REFRIGERATION SYSTEM

Applicant BHARAT HEAVY ELECTRICALS LIMITED, 18/20, KASTURBA GANDHI MARG, NEW DELHI-110001 INDIA

Inventor MR KRISHAN PAI TYAGI, MR GOPAL PRASAD MAHESHWARI AND MR RAJINDER KUMAR SURI

Application No 132/Del/78 filed February 17, 1978

Complete Specification left October 6, 1978

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch

2 Claims

An improvement in a continuous vapour absorption refrigeration system consisting of a generator and a condenser, the outlet of said condenser connected to an evaporator through an expansion valve, an absorber having a first inlet connected to the outlet of said evaporator and a second inlet connected to a weak solution outlet of said generator, said absorber having an outlet connected to an inlet of said generator which is characterized in that said refrigerant consists of ammonia having a solvent consisting of aqueous of sodium thiocyanate solution the refrigerant outlet of said generator connected directly to the condenser

Specn 5 Pages Comp Specn 9 Pages Dig 1 Sheet

CLASS 50F 148902

Int Cl -F25d 15/00 37/00

IMPROVEMENTS IN AN ABSORBER FOR A CONTINUOUS VAPOUR ABSORPTION REFRIGERATION SYSTEM

Applicant BHARAT HEAVY ELECTRICALS LIMITED, 18/20, KASTURBA GANDHI MARG, NEW DELHI-110001 INDIA

Inventor MR KRISHAN PAI TYAGI, MR GOPAL PRASAD MAHESHWARI AND MR RAJINDER KUMAR SURI

Application No 133/Del/78 filed February 17, 1978

Complete Specification left October 6, 1978

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch

6 Claims

An improvement in an absorber for use in a continuous vapour absorption refrigeration system comprising an outer shell having a first and second inlet for introduction of the refrigerant gas and weak solution respectively, a plurality of spaced tubes disposed within said shell for flow of a coolant which is characterized in having at least a baffle plate having plurality of spaced openings for said tubes provided across said shell and adjacent said second inlet such as to allow a flow of the weak solution along or in the proximity of said coolant tubes so that the dissolution rate of the gas with said weak solution is increased

Prov Specn 6 Pages Comp Specn 10 Pages Dr 1 Sheet

CLASS 32F-b &amp; 55F 148903

Int Cl -C07c 129/08

PROCESS FOR THE MANUFACTURE OF GUANIDINE DERIVATIVES

Applicant IMPERIAL CHEMICAL INDUSTRIES LIMITED, OF IMPERIAL CHEMICAL HOUSE, MILIBANK, LONDON SW1P 3JF, ENGLAND AND ICI AMERICAS INC, OF CONCORD PIKE AND NEW MURPHY ROAD, WILMINGTON, DELAWARE 19897, U.S.A.

Inventor TOBIAS OREGON YELLIN, DAVID JOHN GILMAN, DERRICK FLEET JONES AND JAMES MICHAEL WARDLEWORTH

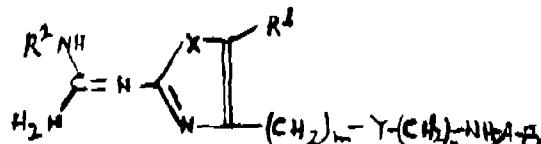
Application No. 274/Del/78 filed April 15, 1978

Convention date April 20, 1977/(16389/77) U.K

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch

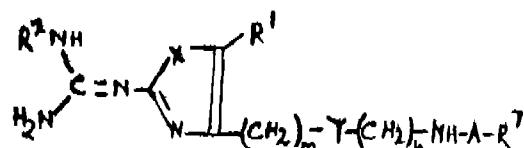
4 Claims

A process for the manufacture of a guanidine derivative of the formula I.



in which X is a sulphur atom or NH radical, Y is an oxygen or sulphur atom, a direct bond, a methylene or sulphonyl radical or a cis or trans vinylene radical, m is 0 to 4 and n is 1 to 4, provided that when Y is a sulphur or oxygen atom or a sulphonyl radical m is 1 to 4 and when Y is an oxygen atom or a sulphonyl radical n is 2 to 4, R1 is a hydrogen or halogen atom or an alkyl radical of 1 to 6 carbon atoms; R2 is a hydrogen atom, an alkyl radical of 1 to 10 carbon atoms, an alkoxy radical of 1 to 6 carbon atoms, an alkanoyl radical of 1 to 6 carbon atoms or a radical of the formula C=Z in which Z is an oxygen or sulphur atom or a radical of the formula NCN, NN02, CNN02, NCONH2, C(CN)2, NCOR3, NCO02R3, NSO2R3 or NR4 in which R3 is an alkyl radical of 1 to 6 carbon atoms or in aryl radical of 6 to 12 carbon atoms and R4 is a hydrogen atom or an alkyl radical of 1 to 6 carbon atoms, B is an alkoxy or alkylthio radical of 1 to 6 carbon atoms or a radical of the formula NR5R6 in which R5 and R6 which may be the same or different, are hydrogen atoms, alkyl radicals of 1 to 10 carbon atoms, alkenyl radicals of 3 to 10 carbon atoms in which the double bond is separated from the nitrogen atom of NR5R6 by at least one carbon atom, cycloalkyl radicals of 3 to 8 carbon atoms, (primary hydroxy) alkyl radicals of 2 to 6 carbon

atoms in which the oxygen atom is separated from the nitrogen atom of NR<sub>5</sub>R<sub>6</sub> by at least two carbon atoms, alkoxyalkyl radicals of 6 to 10 carbon atoms in which the oxygen atom is separated from the nitrogen atom of NR<sub>5</sub>R<sub>6</sub> by at least two carbon atoms; alkylaminoalkyl radicals of 3 to 10 carbon atoms in which the nitrogen atom is separated from the nitrogen atom of NR<sub>5</sub>R<sub>6</sub> by at least two carbon atoms; or dialkylaminoalkyl radicals of 1 to 10 carbon atoms in which the nitrogen atom is separated from the nitrogen atom of NR<sub>5</sub>R<sub>6</sub> by at least two carbon atoms; and the pharmaceutically acceptable acid-addition salts thereof characterised by reaction of a compound of the formula II.



in which R<sub>7</sub> is an alkoxy or alkylthio radical with a compound of the formula B-H wherein B is as defined above whereafter when the compound of the formula I is obtained in the free base form and an acid-addition salt is required, the compound of the formula I in the free base form is reacted with an acid which affords a pharmaceutically-acceptable anion.

Comp. Specn. 43 Pages

Drg. 2 Sheets.

CLASS 32F3a.

148904.

Int. Cl.-C07d 89/16.

**NEW PROCESS FOR PREPARING 5, 6-DIHYDRO-2-METHYL-1, 4-OXATHIIN DERIVATIVES.**

*Applicant & Inventor* : WHA SUK LEE, OF 678 PORTAGE STREET, OTTAWA, ONTARIO, CANADA.

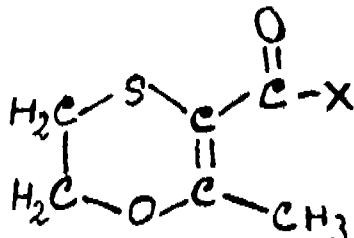
Application No. 322/Del/78 filed May 3, 1978.

Convention date May 6, 1977/(277, 860/77) CANADA.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Delhi Branch.

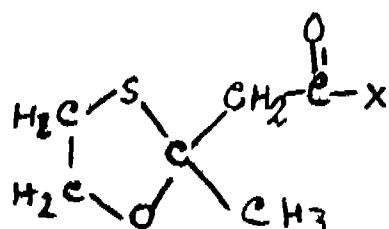
4 Claims

A process of preparing 5, 6-dihydro-2-methyl-1, 4-oxathiin derivative of the formula I.

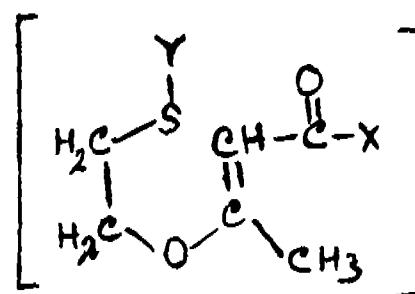


wherein X is an amino group having the formula,  $-\text{N}-\text{R}'$

wherein R and R' are the same or different and are selected from the group consisting of hydrogen, phenyl, alkyl having upto 15 carbon atoms, cyclohexyl, nitrophenyl, alkoxyphenyl in which the alkoxy group has upto 4 carbon atoms, benzyl, carboxyphenyl, furfuryl, halophenyl, tolyl, naphthyl biphenyl and hydroxyphenyl; or X is an alkoxy group -OR, in which R is a primary, secondary or tertiary alkyl group having up to 6 carbon atoms comprising subjecting a 1, 3-oxathiolane sulfoxide of the formula V.



wherein X is the same as in the formula I, with halogen (chlorine or bromine) in a nonhydroxylic solvent whereby ring expansion takes place via a sulfenyl compound of the formula V.



wherein Y is Cl or Br, which cyclizes with loss of hydrogen halide to form the compound I, and subsequently isolating the said derivative of formula I from the resulting mixture.

Comp. Specn. 9 Pages

Drg. 1 Sheet.

CLASS 32F3a.

148905.

Int. Cl. C07d 89/16.

**IMPROVED PROCESS FOR PREPARING 5, 6-DIHYDRO-2-METHYL-1, 4-OXATHININ DERIVATIVES.**

*Applicant & Inventor* : WHA SUK LEE, OF 678 PORTAGE STREET, OTTAWA, ONTARIO, CANADA.

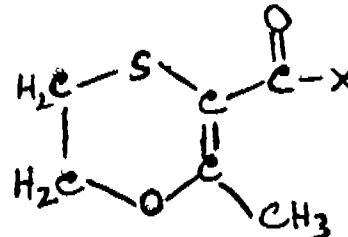
Application No. 323/Del/78 filed May 3, 1978.

Convention date May 6, 1977/(277, 861/77) CANADA.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Delhi Branch.

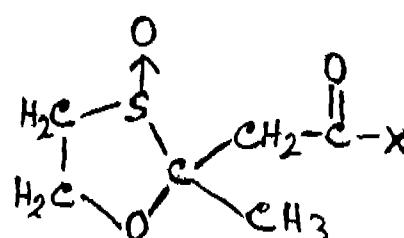
7 Claims

The process of preparing 5, 6-dihydro-2-methyl-1, 4-oxathiin derivative of the formula I.



wherein X is an amino group having the formula,  $-\text{N}-\text{R}'$

wherein R and R' are the same or different and are selected from the group consisting of hydrogen, phenyl, alkyl having upto 15 carbon atoms, cyclohexyl, nitrophenyl, alkoxyphenyl in which the alkoxy group has up to 4 carbon atoms, benzyl, carboxyphenyl, furfuryl, halophenyl, tolyl, naphthyl biphenyl and hydroxyphenyl; or X is an alkoxy group -OR, in which R is a primary, secondary or tertiary alkyl group having up to 6 carbon atoms comprising subjecting a 1, 3-oxathiolane sulfoxide of the formula V.



wherein X is the same as in the formula I, in a solvent to slightly acidic conditions whereby ring expansion takes place via sulfenic acid intermediate to form compound I with loss of water, and subsequently isolating this from the resulting mixture.

Comp. Specn. 14 Pages.

Drg. 2 Sheets.

CLASS 32B.

148906.

Int. Cl.-C07c 3/00, 5/00, 9/02.

PROCESS FOR MAKING AN OLEFIN CONTAINING 6 OR FEWER CARBON ATOMS IN THE MOLECULE.

Applicant : IMPERIAL CHEMICAL INDUSTRIES LIMITED, OF IMPERIAL CHEMICAL HOUSE, MILIBANK, LONDON SW 1P 3JF, ENGLAND.

Inventors : MICHAEL STAINES SPENCER AND THOMAS VINCENT WHITTAM.

Application No. 333/Del/78 filed May 5, 1978.

Convention date May 8, 1977 (46363/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

10 Claims. No drawings.

A process for making an olefin containing 6 or fewer carbon atoms in the molecule which comprises reacting a feedstock comprising a hydrocarbon containing 2 or more atoms in the molecule and/or a hydrocarbon derivative containing hydrogen-carbon links over a catalyst comprising the silica-containing material FU-1 as hereinbefore defined at a temperature of 300 to 550°C and recovering olefin from the product of the reaction.

Comp. Specn. 27 Pages.

Drgs. Nil.

CLASS : 6A<sub>9</sub>

148907.

Int. Cl.-F04c 9/00.

FOOT PUMPS.

Applicant : E. J. PRICE (DEVELOPMENTS) LIMITED, OF 71 MELCHETT ROAD, BIRMINGHAM FACTORY CENTRE KINGS NORTON, BIRMINGHAM, B30 3HL, ENGLAND.

Inventor : ERNEST JAMES PRICE.

Application No. 356/Del/78 filed May 10, 1978.

Convention date May 13, 1977 (20095/77) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

12 Claims

A foot pump of the kind comprising a base member, an operating member pivotally connected or pivotally connectable to the base member and which in use can be depressed by the user's foot from a raised position, a piston-and-cylinder assembly connected or connectable between the operating member and the base member and operative in use to compress or expel air when the operating member is depressed from its raised position, and return spring means operative in use to urge the operating member towards its raised position characterised in that said members have pivot pin means and hook means which means are or can be hooked together to form said pivotal connection between the members.

Comp. Specn. 13 Pages.

Drg. 5 Sheets.

CLASS : 32F<sub>3</sub>d

148908.

Int. Cl.-C07c 57/00.

PROCESS FOR PRODUCTION OF MALEIC ANHYDRIDE FROM N-BUTANE, N-BUTENE, 1, 3-BUTADIENE OR MIXTURE THEREOF USING OXIDATION CATALYSTS.

Applicant : THE STANDARD OIL COMPANY AT MIDLAND BUILDING, CLEVELAND, OHIO 44115, UNITED STATES OF AMERICA.

Inventor : DR. NOLL JEROME BREMFR.

Application No. 336/Del/78 filed May 15, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

24 Claims. No drawings.

In a process for the production of maleic anhydride by the oxidation of n-butane, n-butene, 1, 3-butadiene or mixture thereof with molecular oxygen in the vapor phase at a reaction temperature of 250°C to 600°C in the presence of a catalyst comprising the mixed oxides of vanadium and phosphorus, the improvement comprises preparing the catalyst by (a) forming an aqueous oxide slurry of a vanadium compound containing pentavalent vanadium and a mineral acid-free, inorganic reducing agent capable of reducing said pentavalent vanadium to a valence state below +5; (b) admixing a phosphorus compound containing pentavalent phosphorus with said aqueous slurry of step (a); (c) heating said aqueous slurry of step (b) at a temperature of at least 120°C under autogenous pressure so that substantial evaporation of the water in said slurry is prevented; (d) removing the water from the slurry of step (c) to form a dried catalyst; and (e) calcining the dried catalyst at a temperature of 250°C to 600°C in the presence of an oxygen-containing gas.

Comp. Specn. 45 Pages.

Drgs. Nil.

CLASS 76E.

148909.

Int. Cl.-G09f 3/00.

METHOD OF MANUFACTURING AN ASSEMBLAGE OF FASTENERS AND FASTENERS MANUFACTURED THEREBY.

Applicant : DUNNISON MANUFACTURING COMPANY, AT 300 HOWARD STREET, FRAMINGHAM, MASS, 01701, U.S.A.

Inventor : MR. JOSEPH ROMEO PARADIS.

Application No. 449/Del/78 filed June 16, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

12 Claims

A method for the manufacture of an assemblage of fasteners which comprises the steps of : (a) molding assemblage as a set of connected individual fasteners; (b) stretching the individual fasteners; and (c) simultaneously subjecting the fasteners during the course of their being stretched to controlled heating for a predetermined time and at a predetermined temperature which is below a threshold value which would cause the fasteners to melt.

Comp. Specn. 12 Pages.

Drg. 5 Sheets.

CLASS 32A

148910.

Int. Cl.-C09b 29/06, 29/00.

A PROCESS FOR THE PREPARATION OF YELLOW TO VIOLET AZO DISPERSE DYES FROM 2-HYDROXY-3-NAPHTHOIC ACID ALKYLAMIDES AND THEIR 6-SULPHOALKYLAMIDO DERIVATIVES FOR THE APPLICATION TO POLYESTER AND COTTON FIBRES

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA

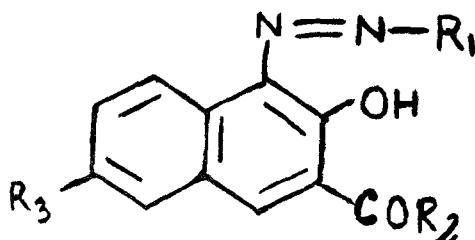
Inventors : NAGARAJ RAMANUJ AYYANGAR, BHASKAR VASUDEO BAPAT AND BAL DATTATRAYA TILAK.

Application No. 489/Del/78 filed June 30, 1978.

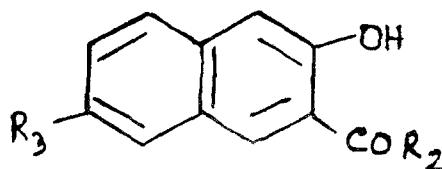
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## 3 Claims

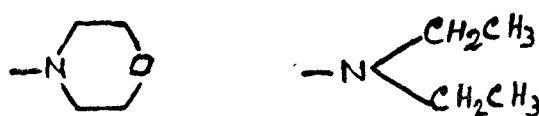
A process for the preparation of yellow to violet 1-aryl-2-hydroxy-3-naphthionic acid alkylamides disperse dyes of general formula I.



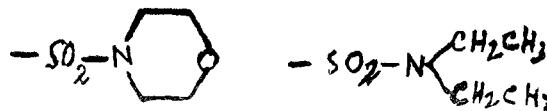
suitable for application for polyester and cotton fibres, comprising diazotization of an amine of formula  $R_1-NH_2$  and coupling the dizonium salt of formula  $R_1-N\equiv N-CI^O$  with a B — naphthol of formula II.



in an alkaline, solution wherein  $R_1$  is phenyl, 2-chlorophenyl, 4-Nitrophenyl, 2-chloro-4-nitrophenyl, 2, 4-dinitrophenyl, 2-methoxyphenyl or 2, 5-dimethoxyphenyl radicals,  $R_2$  is N-morpholino or N, N-diethylamino radicals of formulae III or IV.



and  $R_3$  is hydrogen or morpholinosulfonyl or diethylamino sulfonyl radicals of formulae V and VI.



respectively and separating the dyes formed.

Comp. Specn. 9 Pages.

Drg. 1 Sheet.

CLASS 53E.

148911.

Int. Cl.-B 62 k 19/30.

**A SHOCK PROOF SUPPLEMENTARY SEAT FRAME FOR BICYCLES, MOPEDS AND SIMILAR 2 OR 3 WHEELER VEHICLES.**

*Applicants & Inventors* : BIPIN BHAI VADILAL MEHTA C-9 SEAFACE PARK BHULABHAI DESAI ROAD BOMBAY-400 026 MAHARASHTRA INDIA.

Application No. 278/BOM/77 filed September 20, 1977.

Complete specification after provisional left on 14 December 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 21 Claims

1. A shockproof supplementary seat frame supported at three points of main vehicle frame of a bicycle moped or similar 2 or 3 wheeler vehicle comprises a rigid seat bracket carrying a seat for one/two riders and welded or bolted to middle portion of the seat frame in the form of a longitudinally extending flat bar/pipe the front end of which is pivotally connected to a cleat secured to front pipe end of main

vehicle frame and said pivotal mounting means forming the first support point; the rear end of seat frame is provided with means for bolting thereto upper end of a pair of shock absorbers the lower end of the shock absorbers being bolted to chain stay or rear wheel axle of said vehicle frame and said bolting means for shock absorbers on seat frame forming the second support point and said rigid seat bracket of a seat frame being provided on its lower surface with U shaped channel seat carrying bearing surfaces which bear against corresponding bearing surfaces provided on slidably guided bracket the locating pin end of which is loosely fitted within seat pipe or is rested on a coil spring shock absorbers provided within seat pipe of main vehicle frame and this seat bracket/locating pin bracket assembly forms the third support point for said shockproof seat frame.

Comp. Specn.—27 Pages.

Drg.—3 Sheets.

Prov. Specn.—12 Pages.

Drg.—1 Sheet.

CLASS 11-D.

148912.

Int. Cl.-A01 m 23/04.

**IMPROVEMENTS IN OR RELATING TO MOUSE TRAP.**

*Applicants & Inventors* : PRAVIN RAVINDRANATH KATVI BUILDING NO. 7 B, BLOCK NO. 16 4TH FLOOR NAVJIVAN SOCIETY LAMINGTON ROAD, BOMBAY-400 008 MAHARASHTRA STATE INDIA.

Application No. 357/BOM/1978 filed December 15, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

2 Claims

1. A mouse trap consisting of a box made of opaque or translucent material the said box being enclosed from all sides but having an opening at its top and a plurality of holes at or near its bottom a hinged door being provided at the top of the box for covering the said opening the said door being spring loaded to keep it normally closed and being adapted to swing downwards while opening characterised in that over the said top of the box there is provided a long hollow spout or tunnel having one or more branches having rough internal surface, the said spout or tunnel and its branches also being made of opaque or translucent material one end of the said spout or tunnel completely covering the said top opening of the box while its other end/ends being open to serve as entrance/entrances and a means for supply of compressed air for creating a forced draught of air to spread the smell of food placed inside the box to the mouths of the various tunnels located at various directions and levels the said box being also provided with a spring loaded side door for easy removal of the entrapped rats and cleaning.

Comp. Specn. 8 pages drawing sheets 4.

CLASS 129G+129J.

148913.

Int. Cl.-B23p 3/06.

**A METHOD AND AN APPARATUS FOR COLD BONDING METALLIC STRIPS.**

*Applicants & Inventor* : ERACH RATANSHA GONDA, OF AHMEDABAD ADVANCE MILLS LIMITED, BOMBAY HOUSE, HOMI MODY STREET, FORT, BOMBAY-400 001.

Application No. 195/BOM/1979 filed July 5, 1979.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 14 Claims

A method for cold bonding metallic strips consisting of a core strip and one or more metallic bonding strips which comprises conditioning the mating surface or surfaces of the core strip and the bonding strip or strips, feeding said bonding strip or strips onto the core strip, pressing the core strip and the bonding strip or strips together under pressure so as to create mechanical deformation and bonding thereof and subjecting the green bonding strip to heat treatment.

Complete specification 9 pages.

Drawing 1 sheet.

CLASS 69I.

148914.

Int. Cl. H 01h 35/38.

## A VARIABLE FLUID PRESSURE ACTUATED ELECTRIC SWITCH.

*Applicant & Inventor* : VIJAYAM JOSHUA, 2994, 13TH MAIN ROAD, ANNA NAGAR, MADRAS-600040, TAMIL NADU.

Application No. 211/Mas/78 filed November 15, 1978.

Division of 269/Mas/76 filed December 27, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 5 Claims

A variable fluid pressure actuated electric switch comprising of a fluid casing for containing a fluid, and a switch casing positioned above the fluid casing and inside which the fixed contacts of the switch are mounted, a sleeve, housing a spindle and connecting the switch and the fluid casing, a movable contact mounted at one end of the spindle, projecting inside the switch casing and a piston in contact with the other end of the spindle, the arrangement being such, that when the pressure of fluid in the casing falls below the predetermined value the piston descends thereby to move the spindle down to establish contact between the fixed and the movable contact to operate an electrically operable actuating mechanism.

(Com -6 pages; Drwgs.-2 sheets).

CLASS : 24D.

148915.

Int. Cl. B60t 17/00

## HYDRODYNAMIC TORQUE CONVERTER WHICH IS ALSO EMPLOYABLE FOR BRAKING.

*Applicant* : VOITH TETRIEBE KG, ALEXANDER-STRASSE 2, D-7920 HEIDENHEIM, FEDERAL REPUBLIC OF GERMANY.

*Inventor* : GUSTAV PISTL.

Application No 26/Cal/78 filed January 6, 1978

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims

A hydrodynamic torque converter (10) which by filling with operating fluid or by draining of same is engageable or disengageable, and which apart from traction can also be employed for hydrodynamic braking, furthermore which can be connected up to a cooling circuit (31, 33, 32) into which runs a re-feed line (36) leading from a filling pump (37 or 45), during operation an almost constant fluid pressure being maintained in said re-feed line, characterized in that the cooling circuit line (33) possesses an injector like construction (35) at the lead-in of the re-feed line (36).

Comp. Specn. 14 Pages.

Drg. 2 Sheets.

Int. Cl. H02k 45/00

## MAGNETOHYDRODYNAMIC DEVICE.

*Applicant* : INSTITUT VYSOKIKH TEMPERATUR AKADEMII NAUK SSR, OF KOROVINSKOE SHOSSE MOSCOW, USSR

*Inventors* : SAMUIL MATUSOVICH GORLIN, GRI-GORY ALEXANDROVICH LJUBIMOV, VALENTIN VYATOL' VICH BITJURIN, VALFNTIN IGOREVICH KOVBASJUK, VLADILEN IVANOVICH MAXIMENKO, STANISLAV ALEXANDROVICH MFDIN AND ALEXANDR FVSEEVICH BARSHAK.

Application No. 114/Cal/78 filed January 31, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims

A magnetohydrodynamic device, comprising a duct situated in the magnetic system and adapted for a conducting gas to flow in the transverse magnetic field induction vector, said duct being provided with a plurality of electrodes adapted to interact electrically with said gas and having the cross-sectional shape of its working space bounded by a convex curve inscribed into a rectangle with the sides  $a \geq b$ , a minimum radius  $R$  of curvature of said curve being related to a distance  $x$  from the entry to the duct for the conducting gas to flow to the cross-section under consideration by the following formula :

$$\frac{a}{2} > R \geq 5 (10^{-2} \text{ to } 10^{-4}) \cdot \left[ \frac{1+P_o}{4S_o} \right] \frac{4S_o}{P_o}$$

where  $P_o$  and  $S_o$  stand respectively for the perimeter and cross-sectional area of the duct at the entry thereof and  $0.5 \leq \alpha \leq 1$ .

Comp. Specn. 11 Pages.

Drg. 11 Sheet.

CLASS 83A,

148917.

Int. Cl.-A231 1/10.

## PROCESS FOR THE PRODUCTION FOR A HARD, GRANULATED CEREAL BASED PRODUCT.

*Applicant* : SOCIETE DES PRODUITS NESTLE S.A., OF 1800 VEVEY, SWITZERLAND.

*Inventor* : MANFRED PAUL FRAF.

Application No. 127/Cal/78 filed February 3, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims

A process for the production of a hard, granulated cereal-based product having a moisture content of from 3 to 10%, which comprises; (a) dry mixing from 40 to 70% by weight of cereal flakes, from 5 to 25% by weight of sugar, and from 10 to 20% by weight of whey powder; (b) working the mixture in a continuous kneader with blades with the addition of from 5 to 10% by weight edible oil and of moisture and at a temperature of from 110° to 150°C to produce hard fragments; (c) cooling the fragments obtained; and (d) breaking said fragments into granulates.

Comp. Specn. 6 Pages.

Drg. 1 Sheet.

CLASS 184.

148918.

Int. Cl.-B65g 5/00, F17c 3/00, F16j 15/16.

## WEATHER AND VAPOR SEAL FOR STORAGE TANK.

*Applicant* : AEROJET-GENERAL CORPORATION, AT 9100 EAST FLAIR DRIVE, EL MONTE, CALIFORNIA 91734, U.S.A.

*Inventors* : JOHN S. KINGHORN, ROBERT B. WAGNER, AND ALFRED J. TURALA.

Application No. 129/Cal/78 filed February 4, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 18 Claims

In a storage tank having a cylindrical wall and a floating roof spaced from the wall by a rim space having a dimension between wall and roof which varies about an average dimension, a combined weather and vapor seal for covering the rim space, comprising: a flexible metal shield having a first end rigidly connected to an upper portion of the floating roof and a second end extending toward the wall of the storage tank; and a flexible wiper blade having a wiper end for engaging the inner surface of the wall and an opposed end coupled to the second end of said shield the combination of said shield and said wiper blade disposed to extend from the upper portion of the roof to the wall at an acute angle  $\Delta$  with respect to the horizon, whereby the dimensioning of the shield ensures that the wiper blade is firmly pressed against the tank wall.

Comp. Specn. 20 Pages.

Drg. 2 Sheets.

CLASS 14A<sup>1</sup>. 148919.

Int. Cl.-H01m 43, 06

**ELECTROLYTE FOR SILVER-ZINC ACCUMULATOR.**

*Applicant & Inventor:* GENNADY ZINOVIEVICH KAZAKEVICH, OF ULITSA AKADEMIKA PAVLOVA, 48, KV. 23, MOSCOW, USSR; (2) EKATERINA BORISOVNA KULIKOVA, OF MOLOCHNY PEREULOK, 7, KV. 1, MOSCOW, USSR (3) ALEXANDR IVANOVICH SHILNIKOV, OF ULITSA NOVALEXEEVSKAYA, 11, KV. 16, MOSCOW, USSR; (4) ALBERT PETROVICH CHERNOGLAZOV, OF TASHKENTSKAYA ULITSA, 22, KORPUS 1, KV. 166, MOSCOW, USSR and (5) IRINA EVGENIFVNA YABLOKOVA, OF ULITSA CHERNYSHEVSKOGO, 20/1, KV. 46, MOSCOW, USSR.

Application No. 197/Cal/78 filed February 21, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims. No drawings.

An electrolyte for a silver-zinc accumulator containing an aqueous solution of 400-600 g/l potassium hydroxide, 60-90 g/l zinc oxide, 50-100 g/l sodium tetraborate, and 5-10 g/l silicon dioxide.

Comp. Specn. 10 Pages.

Drgs. Nil.

CLASS 19E.

148920.

Int. Cl.-F16b 21/00.

**AN EXPANDING FIXTURE.**

*Applicant & Inventor:* WILHFLM NELLES, NESENHAUS 2, D-4030 RATINGEN 6, GERMAN FEDERAL REPUBLIC.

Application No. 214/Cal/78 filed February 27, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims.

An expanding fixture for securing an element in a bore, the element having a socket part to be driven into the wall, into which socket an expanding piece composed of flat material penetrates, the piece being arranged to widen said socket due to its section and pressing said socket against the wall of the bore, said expanding piece having a part which projects beyond the socket diameter on the side opposite from the bore base said part being situated in a longitudinal slot of said socket and being supported on the edge of the bore, and the element to be secured, being a hollow section, the end of which forms the socket and the said part on said expanding piece having two opposing ends projecting beyond the hollow section at two positions respectively.

Comp. Specn. 15 Pages.

Drgs. 5 Sheets.

CLASS 133A & B.

148921.

Int. Cl.-H02p 5/00.

**A DEVICE FOR CONTROLLING INDUCTION MOTOR WITH PHASE ROTOR.**

*Applicant & Inventor:* JURY PIROVICH KUZNETSOV, OF SHOSSEINAYA ULITSA 9, KV. 54, MOSCOW, USSR AND MIKHAIL JURIEVICH SIKOLOV, OF ULITSA ROGOVA, 12, KV. 38, MOSCOW, USSR.

Application No. 367/Cal/78 filed April 4, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A device for controlling an induction motor with a phase rotor comprising a transformer whose primary winding is connected to the phase rotor of the induction motor while the secondary winding is connected to one of the input of a comparison circuit whose other input is connected to a setter for setting the speed of the induction motor the output of the comparison circuit is connected to the input of a control

pulse shaper whose output is connected to a thyristor current regulator loaded with a ballast resistor and inserted into the phase rotor circuit; the device also includes a sawtooth generator whose one input is connected to the secondary winding of the transformer and the other input is connected to a transducer producing a voltage proportional to the speed of the phase rotor of the induction motor and connected to the phase rotor while the output of the sawtooth generator is connected to the comparison circuit.

Comp. Specn. 16 Pages.

Drgs. 2 Sheets.

CLASS 147B.

148922.

Int. Cl.-G11b 15/08.

**AN OPTICALLY-OPERABLE ELECTRONIC TRIPPING CIRCUIT.**

*Applicant:* PEICO ELECTRONICS & ELECTRICALS LIMITED FORMERLY KNOWN AS PHILIPS INDIA LIMITED, AT 7, JUSTICE CHANDRA MADHAB ROAD, CALCUTTA-700020, INDIA AND HEAD OFFICE AT SHIVASAGAR ESTATE, BLOCK 'A', DR. ANNIE BESANT ROAD, WORLI, BOMBAY-400018, INDIA.

*Inventor:* CHIRARANJAN DUTTA.

Application No. 388/Cal/78 filed April 10, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

An optically-operable electronic tripping circuit comprising a transistor amplifier (T) the output whereof is connectable to an external ON/OFF circuit to be operated and the base whereof is connected to a light dependent resistor (LDR) through an adjustable RC time network so that when the rate of change in resistance of the light dependent resistor varies with variation in the rate of change of light incident thereon, a change in voltage occurs in the base circuit of the transistor amplifier and the amplified signal at the collector of transistor amplifier triggers the said external ON/OFF circuit.

Comp. Specn. 8 Pages.

Drgs. 1 Sheet.

CLASS 190C.

148923.

Int. Cl.-H02k 5/04.

**HYDROELECTRIC MACHINE SET.**

*Applicant:* ESCHER WYSS LIMITED, OF HARDSTRASSE 319, 8023 ZURICH (SWITZERLAND).

*Inventor:* HEIMUT MILLER.

Application No. 559/Cal/78 filed May 24, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

Hydroelectric machine set having an electric machine and a francis machine; the electric machine having a rotor, and the francis machine having a runner; a rotating unit comprising the rotor of the electric machine and the runner of the francis machine; the rotor of the electric machine having a supporting ring; a bearing arrangement for supporting the rotating unit relatively to the foundations of the machine set; the improvement that a first circle of hydrostatic radial bearings (6) supports the rotating unit (2, 4) in the peripheral region of the supporting ring (2') of the electric machine rotor (2), and a second circle of hydrostatic radial bearings (7) supports the rotating unit (2, 4) in the peripheral region of the francis machine runner (4).

Comp. Specn. 8 Pages.

Drgs. 1 Sheet.

CLASS 33D & 129G.

148924.

Int. Cl.-B23p 7/00, B22d 19/06.

**METHOD OF SURFACING CIRCULAR-SECTION METAL MEMBERS AND A METALLIC ROLL OR WHEEL SO SURFACED.**

*Applicant* : BRITISH STEEL CORPORATION, OF 33 GROSVENOR PLACE, LONDON S.W.1., ENGLAND.

*Inventor* : ALAN PEASE.

Application No. 568/Cal/78 filed May 25, 1978.

Convention date May 27, 1977/(22493/77) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

A method of surfacing circular-section metal members in which the member is rotated and a metallic powder is deposited on to the circumferential surface by flame, arc or plasma spraying, fusion welded and shaped and compacted whilst in a plastic condition by a roll former rotatable and engageable with the surfaced member whereby to impart thereto a surface in conformity with the profile of the former.

Comp. Specn. 12 Pages. Drg. 1 Sheet.

CLASS 204. - - - 148925.

Int. Cl.-G01g 13/00, 13/02, 13/00.

#### A BATCH WEIGHING APPARATUS.

*Applicant* : STEEL SWORTH LIMITED, OF 17, GANESH CHANDRA AVENUE, CALCUTTA-700013, STATE OF WEST BENGAL, INDIA.

*Inventor* : PROBIR DAS.

Application No. 590/Cal/78 filed June 1, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

An automatic batch weighing apparatus comprising a weighing bucket for discharging weighed quantity of material, said weighing bucket having an electrically controlled discharge valve and being suspended on one end of a balance bar, the other end of the balance bar being provided with a counter-weight, the balance bar being supported on a knife edge, said weighing bucket being in operational association with a feed bucket having electrically controlled valves for discharge of material from same to the weighing bucket, one of the discharge valves of the feed bucket and the counter weight end of the balance bar being in operational association with each other, the balance bar being also provided with limit switches, both operated electrically.

Comp. Specn. 9 Pages. Drg. 3 Sheets.

CLASS 32F<sub>2</sub>a & F<sub>2</sub>b & F<sub>2</sub>c. 148926.

Int. Cl.-C07c 119/04.

#### METHOD OF PREPARING ISOCYANATES.

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Application No. 639/Cal/78 filed June 12, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims. No drawings.

A method of preparing organic isocyanates such as herein described comprising interaction of primary amines such as herein described and carbon dioxide with hexamethyl-disilazane in the presence of an acidic catalyst such as herein described at a temperature within the range of from 40 to

200°C and subsequent decomposition the resulting silyl esters of carbamic acid in the presence of a dehydration agent such as herein described at a temperature within the range of from 0 to 350°C.

Comp. Specn. 14 Pages.

Drgs. Nil

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#### RENEWAL FEES PAID

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111636 111674 111717 111779 111877 111914 112278 115630  
116223 116334 116335 116336 116396 116420 116535 116552  
116636 116660 116733 117057 117379 117474 117554 118720  
121541 121801 121922 121955 122059 122146 122253 122314  
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144561 144585 144603 144645 144681 144979 145034 145147  
145265 145346 145468 145504 145758 145775 145801 145929  
146004 146008 146123 146139 146305 146307 146324 146442  
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#### REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of the design included in the entry.

Class 1. No. 147799. Yong Tai Loong Pte, Limited, of 461, MacPherson Road, Singapore 13. "Panel member particularly but not exclusively for use in a wall of a water tank". December, 8, 1978.

Class 1. No. 149843. Manik Office Equipments Private Limited of Jai Hind Estate, Building No. 2, Shop No. 9, Bhuleshwar, Bombay-400002, Maharashtra, India. "Air Pump for Vehicles". August 22, 1980.

Class 1. No. 149897. Allwyn Enterprises (India), and Indian Partnership Concern of D-135, Industrial Focal Point, Ludhiana-141010 (Punjab). "Toaster". September 10, 1980.

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Controller-General of Patents, Design and  
Trade Marks